

Appl. No.: 10/605728
Amdt. Dated: 6/15/2004
Reply to Office action of: 04/27/2004

AMENDMENTSTOTHESPECIFICATION:

Please replace paragraph [0016] with the following amended paragraph:

[0016] According to a further aspect of the present invention, there is provided a glove box damper comprising: a cam assembly comprising a cam lobe attached substantially perpendicular to a pair of mounting spindles and at least two brackets for mounting said cam assembly along the bottom edge of a glove box lid, said glove box lid mounted along its lower edge to a glove box bin allowing said glove box lid to open in a downward direction; a spring assembly comprising body having an integral spring against which said cam lobe is biased and a pair of spindle mounting slots for positioning said cam assembly, mounted on an instrument panel IP retainer; thereby providing a damping of the downward opening movement of said glove box lid.

Please replace paragraph [0017] with the following amended paragraph:

[0017] According to yet another aspect of the present invention there is provided A glove box damper comprising: a cam assembly comprising a cam lobe attached substantially perpendicular to a pair of mounting spindles and at least two brackets for mounting said cam assembly along the bottom edge of a glove box lid, said glove box lid mounted along its lower edge to a glove box bin allowing said glove box lid to open in a downward direction; a spring assembly comprising body having an integral spring against which said cam lobe is biased and having a shape stopping the travel of the cam at a desired point, and a pair of spindle mounting slots for positioning said cam assembly, mounted on an instrument panel IP retainer; thereby providing a damping of the downward opening movement of said glove box lid as well as a desired amount of travel of said glove box lid.

Please replace paragraph [0021] with the following amended paragraph:

[0021] Figure 3 shows a perspective view of the spring portion of the glove box damper of the present invention

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Please add the following new paragraph after paragraph [0021.1]:

[0021.1] Figure 4 shows a plan front view of a portion of an instrument panel IP retainer containing a glove box opening having the springs and retaining slots for the damper device of the present invention.

Please replace paragraph [0023] with the following amended paragraph:

[0023] As further shown in Figure 1 the damper device 10 comprises a cam assembly 20 mounted on or molded into the glove box lid 102 ~~24~~ and a spring portion 31 mounted on or molded into the I P retainer 30.

Please replace paragraph [0024] with the following amended paragraph:

[0024] Referring now to Figure 2, there is shown a perspective view of the cam assembly 20 having a cam lobe 1, a pair of mounting spindles 2 and a pair of mounting brackets 3. In practice the mounting spindles 2 are rotatively mounted in retaining slots 32 (Figure 3) of instrument panel IP retainer 30 (Figure 3). The cam lobe 1 being substantially perpendicular to mounting spindles 2. The mounting brackets 3 are fixedly attached to the glove box lid 102 (Figure 1).

Please replace paragraph [0025] with the following amended paragraph:

[0025] Turning now to Figure 3, there is shown the instrument panel IP retainer 30 having a spring 31 of desired shape molded therein and further having molded therein a pair of retaining slots 32 configured to receive a corresponding pair of mounting spindles 2 (Figure 2) of the cam assembly 20 (Figure 2) of the present invention. The spindles 2 (Figure 2) mounted in the retaining slots 32 position the cam 1 (Figure 2) to ride against spring 31. Also shown are mounting slots 33 which provide for easy insertion of the mounting spindles 2 (Figure 2) into the retaining slots 32. During the downward opening movement of the glove box lid 102 (Figure 1) the spring 31 thus exerts a desired force against the rotational movement of cam 1 (Figure 2) thereby damping and slowing the

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downward movement of the glove box lid 102 (Figure 1). The spring 31 may also be configured to stop the rotational movement of the cam 1 (Figure 2) at a predetermined point thereby limiting the opening travel of the glove box lid 102 (Figure 1).

Please replace paragraph [0026] with the following amended paragraph:

[0026] Referring now to Figure 4 there is shown a partial front plan view of an instrument panel IP retainer 30 having molded therein a plurality of springs 31 and corresponding plurality of paired retaining slots 32 of the present invention.

Please replace paragraph [0028] with the following amended paragraph:

[0028] In practice it is preferred for the spring to be about 30% to about one third compressed from its free position when the glove box lid is closed and about one half (50%) compressed from its free position when the glove box lid is open. Different amounts of compression on the spring at both the open and closed positions of the glove box lid may be used to provide the desired effect of damping and slowing of the glove box lid travel.

Please replace paragraph [0029] with the following amended paragraph:

[0029] The damper device 10 of the present invention may be made of any suitable material or materials well known in this art. Particularly the damper device 10 of the present invention may be made of the same material as that of the instrument panel IP retainer or it may be made of a different material to achieve the desired properties of providing damping and slowing of the glove box lid during opening. Presently preferred materials include, for example, acrylonitrile-butadiene-styrene (ABS), polycarbonate/acrylonitrile-butadiene-styrene (PC/ABS), the engineered material sold under the brand name NOREL Norel by General Electric Corporation, polypropylene, and other engineered materials well known in this art. It is also to be understood that the various parts of the damper device of the present invention may all be made of the same material or the various parts may be made of different materials.